

XP-002150262

N \*\*\*129:335475\*\*\* CA  
 TI High-concentration dispersions of oil-containing quaternary ammonium salts-based vesicles for hair-care products, etc.  
 IN. Tsukagoshi, Susumu; Umezawa, Hiroaki; Kiyama, Kentaro; Nago, Kazuo  
 PA Lion Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN. CNT 1

PD	1	2
P	1.2	2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 10298149 A2 19981110 JP 1997-121674 19970424  
 AB The dispersions contain 5-60% bimol. membrane vesicles of quaternary ammonium salts in which oils are enclosed, and 0.5-20% sugar alcs. as viscosity-reducing agents. Sugar alcs. may be added to a 1st and/or 2nd aq. phase for prepn. of the dispersions. The dispersions are useful for hair conditioners, etc., and as textile softeners. A mixt. of distearoyloxyethyltrimethylammonium chloride, 10, fat-sol. perfume 5, 11 paraffin 1, cetyl alc, 0.5, and silicone oil 1.5% was mixed with a part an aq. phase contg. 1% CaCl<sub>2</sub> and 20% sorbitol, and the resulting liq. crystal compn. was further mixed with the residual part of the aq. phase to give a hair rinse having viscosity 15 cP.

IC ICM C07C211-63  
 ICS B01J013-00; C11D001-62; C11D003-22; D06M013-46; A61K007-06; A61K007-08

CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 40

ST quaternary ammonium salt vesicle dispersion rinse; hair softener  
 quaternary ammonium salt dispersion; fabric softener quaternary ammonium salt dispersion; alditol viscosity reducer quaternary ammonium dispersion

IT Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (dimethylditolalkyl, chlorides; high-concn. dispersions of oil-contg. quaternary ammonium salt bimol. membrane vesicles using sugar alcs. as viscosity reducing agents for hair rinses, etc.)

IT Bilayer membranes  
 Disperse systems  
 Fabric softeners  
 Hair conditioners  
 Vesicles (colloidal)  
 (high-concn. dispersions of oil-contg. quaternary ammonium salt bimol. membrane vesicles using sugar alcs. as viscosity reducing agents for hair rinses, etc.)

IT Alditols  
 RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (high-concn. dispersions of oil-contg. quaternary ammonium salt bimol. membrane vesicles using sugar alcs. as viscosity reducing agents for hair rinses, etc.)

IT Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (high-concn. dispersions of oil-contg. quaternary ammonium salt bimol. membrane vesicles using sugar alcs. as viscosity reducing agents for hair rinses, etc.)

IT 50-70-4, Sorbitol, biological studies 69-65-8, Mannitol 87-99-0, Xylitol  
 RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);

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PRP (Properties); BIOL (Biological study); USES (Uses)  
(high-concn. dispersions of oil-contg. quaternary ammonium salt bimol.  
membrane vesicles using sugar alcs. as viscosity reducing agents for  
hair rinses, etc.)

IT 67846-68-8, Distearoyloxyethyltrimethylammonium chloride 148000-42-4,  
Dioleoyloxyethyltrimethylammonium chloride  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological  
study); USES (Uses)  
(high-concn. dispersions of oil-contg. quaternary ammonium salt bimol.  
membrane vesicles using sugar alcs. as viscosity reducing agents for  
hair rinses, etc.)